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ABSTRACT

This book presents selected papers from a conference whose objective was to determine the policies needed to foster the involvement of minorities in science, engineering, and mathematics. The following papers were presented: (1) "Introduction" (Eugene Cota-Robles); (2) "United States Demographics" (George Campbell, Jr.); (3) "A Practitioner's Perspective" (Carlos Rodriguez); (4) "Policy Issues" (Alan Fechter); (5) "Entering the Education Pipeline" (Shirley Malcolm and Bernice Anderson); (6) "Changing the Face of Science and Engineering: Good Beginnings for the Twenty-First Century" (Joan Bissell); (7) "Early Childhood Science Programs" (Yolanda S. George); (8) "Obstacles to Policy Formation" (Antony Ward); (9) "Influences on Minority Participation in Mathematics, Science, and Engineering" (Beatriz Chu Clewell and Jomills Henry Braddock, II); (10) "Advancing Middle Grade Reform: Research" (Anita M. Baker); (11) "It Takes a Village To Raise a Scientist" (DeAnna Beane); (12) "The Policy Perspective" (Nancy Carson); (13) "The Transition to and from High School of Ethnic Minority Students" (Angela B. Ginorio and Jeri Grignon); (14) "Explaining the Unrealized Aspirations of Racial and Ethnic Minorities" (Barbara Schneider); (15) "The College Preparation Process" (Judith Shay); (16) "Policy Matters" (R. Guy Vickers); (17) "Barriers to Minority Success in College Science, Mathematics, and Engineering Programs" (Reginald Wilson); (17) "The Role of State and Institutional Policies and Practices" (Richard C. Richardson, Jr.); (18) "Reflection on the State of Research: What Next?" (Vincent Tinto); (19) "University Faculty: Priming the Pump or Lying in Ambush?" (William Yslas Velez); (20) "Rethinking the Model" (Antoinette Torres); (21) "Financing Opportunity for Postsecondary Education" (Thomas G. Mortenson); (22) "The Preparation of Minorities for Academic Careers in Science and Engineering: How Well Are We Doing?" (Shirley Vining Brown); (23) "Enhancing the Research Base" (Cheryl B. Leggon); (24) "The Next Stage" (Cora Marrett); (25) "Policy Perspectives" (Daryl E. Chubin); (26) "Models for Studying Early Careers: Minority Scientists and Engineers in Industry" (Terrence R. Russell); (27) "Why Are Minority and Women Scientists Still Treated So Badly?" (Henry

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Etzkowitz); (28) "Critical Issues" (George Campbell, Jr.) (29) "Policy" (Willie Pearson, Jr.); and (30) "Gaining Access: A Research and Policy Agenda" (Ronni Denes). Each paper contains references. (Contains 41 tables and 68 figures.) (SLD)

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